

PCT

## ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,724

DATE: 07/15/2002 TIME: 12:30:05

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07152002\J088724.raw

3 <110> APPLICANT: Keio University 5 <120> TITLE OF INVENTION: Humanin, a novel polypeptide that protects neuronal 6 death 8 <130> FILE REFERENCE: KUV-102DP1PCT1 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/088,724 C--> 11 <141> CURRENT FILING DATE: 2002-06-10 13 <150> PRIOR APPLICATION NUMBER: JP 1999-264679 14 <151> PRIOR FILING DATE: 1999-09-17 15 <150> PRIOR APPLICATION NUMBER: JP 2000-201456 16 <151> PRIOR FILING DATE: 2000-06-29 18 <160> NUMBER OF SEQ ID NOS: 60 20 <170> SOFTWARE: PatentIn Ver. 2.0 22 <210> SEQ ID NO: 1 23 <211> LENGTH: 85 24 <212> TYPE: DNA 25 <213> ORGANISM: Artificial Sequence 27 <220> FEATURE: 28 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence 31 <400> SEQUENCE: 1 32 aattcaccat ggctccacga gggttcagct gtctcttact tttaaccagt gaaattgacc 60 33 tgcccgtgaa gaggcgggca ggtac 35 <210> SEQ ID NO: 2 36 <211> LENGTH: 77 37 <212> TYPE: DNA 38 <213> ORGANISM: Artificial Sequence 40 <220> FEATURE: 41 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially 42 synthesized sequence 44 <400> SEQUENCE: 2 45 ctgcccgcct cttcacgggc aggtcaattt cactggttaa aagtaagaga cagctgaacc 60 77 46 ctcgtggagc catggtg 48 <210> SEQ ID NO: 3 49 <211> LENGTH: 79 50 <212> TYPE: DNA 51 <213> ORGANISM: Artificial Sequence 53 <220> FEATURE: 54 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence

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57 <400> SEOUENCE: 3

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Input Set : A:\Sequence Listing.txt Output Set: N:\CRF3\07152002\J088724.raw 62 <211> LENGTH: 75 63 <212> TYPE: DNA 64 <213> ORGANISM: Homo sapiens 66 <220> FEATURE: 67 <221> NAME/KEY: CDS 68 <222> LOCATION: (1)..(72) 70 <400> SEQUENCE: 4 71 atg gct cca cga ggg ttc agc tgt ctc tta ctt tta acc agt gaa att 72 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile 73 75 75 gac ctg ccc gtg aag agg cgg gca tga 76 Asp Leu Pro Val Lys Arg Arg Ala 79 <210> SEQ ID NO: 5 80 <211> LENGTH: 24 81 <212> TYPE: PRT 82 <213> ORGANISM: Homo sapiens 84 <400> SEQUENCE: 5 85 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile 10 1 88 Asp Leu Pro Val Lys Arg Arg Ala 91 <210> SEQ ID NO: 6 92 <211> LENGTH: 34 93 <212> TYPE: PRT 94 <213> ORGANISM: Artificial Sequence 96 <220> FEATURE: 97 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence (SHN-FLAG) 98 100 <400> SEQUENCE: 6 101 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile 10 102 104 Asp Leu Pro Val Lys Arg Arg Ala Gly Thr Asp Tyr Lys Asp Asp Asp 25 105 107 Asp Lys 110 <210> SEQ ID NO: 7 111 <211> LENGTH: 24 112 <212> TYPE: PRT 113 <213> ORGANISM: Artificial Sequence

116 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,724

115 <220> FEATURE:

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124

synthesized sequence (HNR)

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RAW SEQUENCE LISTING DATE: 07/15/2002 PATENT APPLICATION: US/10/088,724 TIME: 12:30:05

Input Set : A:\Sequence Listing.txt
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DATE: 07/15/2002

TIME: 12:30:05

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF3\07152002\J088724.raw synthesized sequence (deltaN1-Humanin) 193 195 <400> SEQUENCE: 12 196 Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp 10 197 199 Leu Pro Val Lys Arg Arg Ala 200 20 202 <210> SEQ ID NO: 13 203 <211> LENGTH: 22 204 <212> TYPE: PRT 205 <213> ORGANISM: Artificial Sequence 207 <220> FEATURE: 208 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence (deltaN2-Humanin) 211 <400> SEQUENCE: 13 212 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu 10 215 Pro Val Lys Arg Arg Ala 216 218 <210> SEQ ID NO: 14 219 <211> LENGTH: 21 220 <212> TYPE: PRT 221 <213> ORGANISM: Artificial Sequence 223 <220> FEATURE: 224 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence (deltaN3-Humanin) 227 <400> SEQUENCE: 14 228 Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro 10 229 231 Val Lys Arg Arg Ala 232 234 <210> SEQ ID NO: 15 235 <211> LENGTH: 20 236 <212> TYPE: PRT 237 <213> ORGANISM: Artificial Sequence 239 <220> FEATURE: 240 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence (deltaN4-Humanin) 243 <400> SEQUENCE: 15 244 Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val 245 1 5 10 247 Lys Arg Arg Ala 248 250 <210> SEQ ID NO: 16 251 <211> LENGTH: 19 252 <212> TYPE: PRT 253 <213> ORGANISM: Artificial Sequence 255 <220> FEATURE: 256 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially synthesized sequence (deltaN5-Humanin) 257

RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt
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279 Arg Ala
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VERIFICATION SUMMARY

DATE: 07/15/2002

PATENT APPLICATION: US/10/088,724

TIME: 12:30:06

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF3\07152002\J088724.raw

L:10~M:270~C: Current Application Number differs, Replaced Application Number L:11~M:271~C: Current Filing Date differs, Replaced Current Filing Date